

UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Group: Attorney Docket # 1936

Applicant(s) : EGGERS, W., ET AL

Serial No. :

Filed :

For : STATOR

SIMULTANEOUS AMENDMENT

January 18, 2002

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.

REMARKS:

This Amendment is submitted simultaneously with filing of the above identified application.

With the present Amendment applicant has amended the claims so as to eliminate their multiple dependency.

Consideration and allowance of the present application is most respectfully requested.

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What is claimed is:

1. A stator (20) comprising at least one stack of individual laminations (16) that comprises at least one lamination (1), and an at least partially present plastic coating (22),

wherein the stator (20) comprises at least one core ring (70) that forms a watertight inner channel (27) and extends along a centerline (3), at least one stack of individual laminations (16) is located on the core ring (70), and the at least one stack of individual laminations (16) is held together by means of the plastic coating (22).

2. A stator according to claim 1,

wherein the core ring (70) has at least one hook-shaped projection (77) for each stack of individual laminations (16) that extends in the direction of the centerline (3) of the stator (20) on an outer surface of the core ring (70), and the hook-shaped projection (77) at least partially encompasses the stack of individual laminations (16) and forms a positive connection.

3. A stator according to claim 1 [or 2],

wherein the core ring (70) has at least one protuberance (74) that extends in the direction of the centerline (3) on an outer surface of the core ring (70), and the protuberance (74) catches in a groove (58) of the stack of individual laminations (16).

4. A stator according to claim 1,

wherein the plastic coating (22) of the stator (20) is produced by means of injection molding.

5. A stator according to claim 1 [or 2],
wherein at least one stack of individual laminations (16) has at least one
projection (5) extending radially outward, on which an electrical winding (45) is
located.
6. A stator according to claim 5,
wherein a coil form (34) is integrally molded onto at least one projection (5) of the
lamination (1).
7. A stator according to claim 6,
wherein the electrical winding (45) is located on the coil form (34), the electrical
winding (45) is composed of at least one coil wire, and at least one receptacle
(38) is located on the plastic coating (22) that serves as an insulation
displacement connection having a coil wire (48).
8. A stator according to claim 7,
wherein the at least one receptacle (38) is located on the coil form (34).
9. A stator according to [one or more of the claims 6 through 8] claim 6,
wherein a winding is wound in at least one plane on the coil form (34), there is a
lowermost winding plane (51) of a coil form (34) that is closest to the centerline
(3), and the lowermost winding plane (51) touches the plastic coating (22) only at
the respective coil form (34).
10. A stator according to [one or more of the claims 6 through 9] claim 6,
wherein the coil form (34) has at least one winding support point (54) for a
winding procedure of the coil form (34) having a winding (45).
11. A stator according to [one or both of the claims 5 or 6] claim 5,

What is claimed is:

1. A stator (20) comprising at least one stack of individual laminations (16) that comprises at least one lamination (1), and an at least partially present plastic coating (22),

wherein the stator (20) comprises at least one core ring (70) that forms a watertight inner channel (27) and extends along a centerline (3), at least one stack of individual laminations (16) is located on the core ring (70), and the at least one stack of individual laminations (16) is held together by means of the plastic coating (22).

2. A stator according to claim 1,

wherein the core ring (70) has at least one hook-shaped projection (77) for each stack of individual laminations (16) that extends in the direction of the centerline (3) of the stator (20) on an outer surface of the core ring (70), and the hook-shaped projection (77) at least partially encompasses the stack of individual laminations (16) and forms a positive connection.

3. A stator according to claim 1,

wherein the core ring (70) has at least one protuberance (74) that extends in the direction of the centerline (3) on an outer surface of the core ring (70), and the protuberance (74) catches in a groove (58) of the stack of individual laminations (16).

4. A stator according to claim 1,

wherein the plastic coating (22) of the stator (20) is produced by means of injection molding.

5. A stator according to claim 1,
wherein at least one stack of individual laminations (16) has at least one
projection (5) extending radially outward, on which an electrical winding (45) is
located.

6. A stator according to claim 5,
wherein a coil form (34) is integrally molded onto at least one projection (5) of the
lamination (1).

7. A stator according to claim 6,
wherein the electrical winding (45) is located on the coil form (34), the electrical
winding (45) is composed of at least one coil wire, and at least one receptacle
(38) is located on the plastic coating (22) that serves as an insulation
displacement connection having a coil wire (48).

8. A stator according to claim 7,
wherein the at least one receptacle (38) is located on the coil form (34).

9. A stator according to claim 6,
wherein a winding is wound in at least one plane on the coil form (34), there is a
lowermost winding plane (51) of a coil form (34) that is closest to the centerline
(3), and the lowermost winding plane (51) touches the plastic coating (22) only at
the respective coil form (34).

10. A stator according to claim 6,
wherein the coil form (34) has at least one winding support point (54) for a
winding procedure of the coil form (34) having a winding (45).

11. A stator according to claim 5,

wherein an external member (30) is slid onto the projections (5) of the stack of individual laminations (18).

12. A stator according to claim 11,
wherein the external member (30) is formed out of individual sheet metal layers.

13. A stator according to claim 11,
wherein the external member (30) forms a bayonet coupling (64) with the at least one stack of individual laminations (18).

14. A stator according to claim 1,
wherein the stack of individual laminations (18) forms a laminated stack.